

Title (en)
Photoelectric encoder

Title (de)
Fotoelektrischer Kodierer

Title (fr)
Codeur photoélectrique

Publication
EP 2629064 A3 20150128 (EN)

Application
EP 13154928 A 20130212

Priority
JP 2012030933 A 20120215

Abstract (en)
[origin: EP2629064A2] A photoelectric encoder (1) according to the present invention comprises a light-receiving unit (7) including: a first and second light-receiving element column (LRL); and a light-blocking layer (20) configured from a light-blocking portion (20a) and a light-transmitting portion (20b), the first and second light-receiving element columns being disposed staggered in a second direction such that an arrangement pattern of light-receiving elements in the first and second light-receiving element columns has a pitch which is the same in a first direction and a phase which differs in the first direction, and the light-transmitting portion on the light-receiving surface of the light-receiving element in the first light-receiving element column and the light-transmitting portion on the light-receiving surface of the light-receiving element in the second light-receiving element column being formed so as not to overlap each other when staggered in the second direction.

IPC 8 full level
G01D 5/353 (2006.01); **G01D 5/347** (2006.01)

CPC (source: EP US)
G01D 5/34746 (2013.01 - US); **G01D 5/35383** (2013.01 - EP US)

Citation (search report)

- [X] EP 1477775 A2 20041117 - MITUTOYO CORP [JP]
- [A] EP 2284498 A2 20110216 - SANYO ELECTRIC CO [JP]
- [A] US 2007001108 A1 20070104 - SANNOMIYA HIDEAKI [JP], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2629064 A2 20130821; EP 2629064 A3 20150128; EP 2629064 B1 20170419; CN 103256948 A 20130821; CN 103256948 B 20170405; JP 2013167536 A 20130829; JP 5974329 B2 20160823; US 2013206970 A1 20130815; US 9719811 B2 20170801

DOCDB simple family (application)
EP 13154928 A 20130212; CN 201310052343 A 20130218; JP 2012030933 A 20120215; US 201313766077 A 20130213